

TOWN OF DAVIE TOWN COUNCIL AGENDA REPORT

TO: Mayor and Council members

FROM/PHONE: Frank Apicella, Information Systems Director, 797-1063

TITLE OF AGENDA ITEM: A RESOLUTION OF THE TOWN OF DAVIE, FLORIDA, FOR PURCHASE AND INSTALLATION OF THE FIRST PHASE OF TELEPHONE AND DATA INFRASTRUCTURE FOR TOWN GOVERNMENT FACILITIES, PIGGYBACKING ON THE EXISTING AGREEMENT BETWEEN BROWARD COUNTY AND BELL SOUTH.

REPORT IN BRIEF: In 1999, the \$5 million Public Improvement Revenue Bond, Series 1999 was passed. Part of this bond money was allocated to the purchase of a Private Branch Exchange (PBX), which is a large digital telephone switching system located within the user's business complex. The Town already has one such system to handle the needs of the Police Department. Phase one of this project will require \$84,075 of the \$170,000 still available on the bond. The second phase, the purchase of the PBX equipment will require the remaining \$85,925 of the \$170,000 and approximate \$230,000 of additional capital acquired thru future bond money.

Town Hall and other appropriate facilities are in need of a PBX based system for several reasons:

1. Some parts of the current system, such as the telephone handsets, are now completely obsolete. The phones can no longer be purchased new since they are not manufactured anymore. In addition, until recently, these handsets could be sent to the manufacturer, Northern Telecom, for refurbishing. Now even this possibility is no longer available. We are attempting to find another competent repair facility, but have not been successful. Substituting other brands of phones is not possible since none are compatible with important parts of the current system.
2. Our current telephone service, ESSX, a BellSouth Central Office-based system, is becoming progressively more obsolete and more limiting as time progresses, partly because BellSouth appears to be reducing its support for the business use of this type system in favor of more advanced, self-contained, digital systems. In addition, replacement of the current system with an appropriate PBX system will serve to unify the Town's phone services (eg. allowing four digit dialing as we used to have when the whole Town used the same system).
3. Finally, calculations of the relative costs of the proposed PBX system, compared to the the current ESSX system, yield savings, after installation, of approximately \$2,500 per month.

Staff recommends that we utilize the Broward County/BellSouth Telephone Systems Master Agreement based on the fact that of the three vendors contacted, BellSouth had the lowest overall price, has given good service in both the ESSX and PBX areas, and will provide a Nortel PBX system that is compatible with the one already existing in the Police Department.

This first phase will consist of re-cabling the Town Hall complex, the complex consisting of Parks and Recreation/Fire Administration and Public Works, and a few outlying facilities such as Utilities Operations. The new cabling will allow for growth in both network and telephone transmission speeds over time and will consist of installing the new cables in the same general areas as the existing cables. However, current phone and computer network systems will continue in operation as is until the actual PBX switch has been installed and tested in the follow-on phase of the project.

PREVIOUS ACTIONS: 1999: \$5 million dollar Public Improvement Revenue Bond, Series 1999; \$170,000 available.

CONCURRENCES: Not Applicable

FISCAL IMPACT: Phase I (Cabling) : \$84,075

ADDITIONAL COMMENTS: Not Applicable

RECOMMENDATION(S): Motion to approve the resolution.

Attachment(s): Resolution, Contract.

RESOLUTION _____

A RESOLUTION OF THE TOWN OF DAVIE, FLORIDA, FOR PURCHASE AND INSTALLATION OF THE FIRST PHASE OF TELEPHONE AND DATA INFRASTRUCTURE FOR TOWN GOVERNMENT FACILITIES, PIGGYBACKING ON THE EXISTING AGREEMENT BETWEEN BROWARD COUNTY AND BELL SOUTH.

WHEREAS, the Town is in need of a telephone/data communication network and cabling services for the Town Hall and other governmental facilities; and,

WHEREAS, Broward County has awarded a contract for such equipment and services to BellSouth; and

WHEREAS, the purchase of the PBX equipment shall be acquired on a subsequent resolution, when funds are available; and,

WHEREAS, after review, the Town Council wishes to accept the contract rates and other terms and conditions in the above referenced contract.

NOW, THEREFORE, BE IT RESOLVED BY THE TOWN COUNCIL OF THE TOWN OF DAVIE, FLORIDA:

SECTION 1: The unit prices, terms and conditions of the Telephone Systems Master Maintenance Agreement RLI 060597-RB, between Broward County and BellSouth Communications, LLC, for telecommunications equipment and services are hereby accepted by the Town Council.

SECTION 2: The Town Council hereby authorizes the expenditure from the Capital Outlay/Town hall Complex Account for the first phase of this project, which consists of the revamping of the data and communications infrastructure only.

SECTION 3: This resolution shall take effect immediately upon the passage and adoption.

PASSED AND ADOPTED, THIS THE _____ DAY _____, 2001.

MAYOR/COUNCIL MEMBER

Attest:-----

TOWN CLERK

APPROVED THIS _____ DAY _____, 2001.



**BellSouth
Communication Systems**
A **BELLSOUTH** Company

**BELLSOUTH COMMUNICATION SYSTEMS, INC.
TELECOMMUNICATIONS WIRING PROPOSAL**

Submitted to:
Town of Davie

Service Address:
Town Hall, 4700 bldg., Public Works, Fire
Administration, Parks and Rec, and Pine Island
Park, Davie, Florida

Proposal Date: 06 12 01 BICS Engineer: Todd Stagg, RCDD
Proposal and Pricing Valid for 60 Days from Proposal Date

**PURSUANT TO MASTER AGREEMENT NO. CPE61537,
BELLSOUTH WILL PROVIDE AND INSTALL THE FOLLOWING:**

Thank you for this opportunity to provide pricing. BellSouth has performed various site surveys to help provide you a communications cabling solution that will not only meet your needs, but hopefully as well your budget.

Please find the attached unit detail for the proposed installation of 150 dual locations.

Per your request this is pricing reflects the use of Option # 1, category 5 voice and 5E plenum data applications, Option #2, dual Category 6 and Option #3, Category 5E voice and Category 6 data. Each location will be cabled with two plenum cables. All cabling will be terminated and tested per manufacturer specifications. Please find the attached unit detail for the proposed installation of 175 dual locations.

BellSouth provides this competitive bid for the materials and labor necessary to install either Ortronics/Berk-Tek Category 5e and option price for Category 6 structured cabling system for the main town hall complex, the Parks and Fire Administration complex, and new admin offices at 4700 SW 64th Avenue and the new building and concessions at the Pine Island Recreation Center and Park. BellSouth will provide the manufacturer's extended product warranty and applications assurance.

Project Scope review:

Your new cabling system will consist of two cables to be installed at each user location. Per our walk throughs we have estimated that your current requirements are for 175 locations.

PATHWAYS

It is our assumption that all conduit pathways will be existing or would be provided by the Davie Facilities Department. BellSouth will provide all necessary fire stopping for the our communication pathways. Again we assume that the Facilities Department will provide all slab penetrations.

HORIZONTAL CABLING

Installation:

The horizontal cables on each floor will originate from the communications closet or panel. All horizontal cables will be terminated in patch panels. The patch panels will be installed with horizontal wire managers above and below each panel when there is more than one panel installed.

Each work area outlet will receive two horizontal cables. Each of those cables will have their own distinct circuit ID. All cabling for this project that is not installed within conduit will be installed secured in the ceiling of the building structure in its own support system. The cabling will be installed wherever possible above all other utilities within the ceiling, and will not rest on or use the support structure of other trades work. All cabling will follow general routes through hallways and will avoid, wherever possible, routes through individual work areas. All cable bundles will not exceed groupings that will cause the cables on the bottom of the bundle at the supports to become cinched or unduly compressed by the weight of the bundle.

WORK AREA OUTLETS (WAO)

As stated above, each WAO, unless otherwise specified, will consist of two horizontal cables. All WAOs that reside in wall outlets will be installed in a dual flush mount outlet.

All WAOs that reside in modular furniture will be installed in a dual surface mount outlet.

All connectors in all outlets will match the color of the faceplate (unless otherwise specified by the customer in our kickoff meeting).

LABELING

All cables installed in this system¹ will be labeled. The labeling will be done in a neat manner, using computer-generated labels. At no time for any reason will hand writing be used to label any portion of this installation.

INSTALLATION COMPLIANCE

This installation will be completely compliant with all the following codes, regulations and standards:

**The National Electric Code
EIA/TIA 568A
EIA/TIA 569
All applicable building codes
All manufacturer guidelines
BICSI TDMM**

CONTRACTOR QUALIFICATIONS

BellSouth

Does will have a RCDD on staff and overseeing on this project.

- **BellSouth will use one of our certified business partners to perform this installation.**
- **BellSouth will provide any required permitting as required for this installation**
- **BellSouth has adequate coverage for Workmen's Compensation. Contracting BellSouth has General Liability insurance with adequate coverage BellSouth is certified by the manufacturer to provide extended warranties for the Ortronics/Berk-Tek cabling system.**
- **BellSouth has and will provide documentation for proof of licensing, manufacturer's certification and insurance coverage's.**

GROUNDING

All racks and panels in this project will be grounded. Each rack will be individually grounded with a #6AWG green insulated ground wire, run to a BellSouth provided common bus bar only. The Facilities Department must provide the ground from the main power panel for the building. Per proper grounding procedures, BellSouth will bond all equipment racks and termination panels.

TESTING

All horizontal cabling will be tested according to the manufacturer's guidelines for the category of cabling installed.

DOCUMENTATION

As part of this installation, the BellSouth will provide a documentation package. This documentation package will consist of marked (customer provided)floor plans showing all work area outlets and their associated numbering. Additionally, BellSouth will provide test results for all cabling installed for this project. These test results will be provided in both hard copy and on disk. All cables that have a patch cord will be tested for channel performance and all un-patched cables will be tested for link performance per manufacturer specs..

WARRANTY:

BellSouth will provide the manufacturer's extended product warranty and applications assurance. This warranty must cover the entire channel performance (As mentioned above, a channel warranty will only be extended on the cables that have a patch cable. All un-patched cables will be tested and warranted for link performance.

Description		Units
Horizontal		
Copper		
Cable - SCS Copper CAT 6 White (options for Cat 5 & 5E)		32000
Cable - SCS Copper CAT 6 Blue (also option for Cat 5E)		32000
Jack - SCS Copper		175
TESTING - Copper Structured Cable		350
Face Plate - Single Gang		50
Faceplate-Blanks		150
Surface Mounting Box		100
Surface Mounting Box mini bezel		100
Cable Hanging Devices		400
Copper Patch Panels & 110 Blocks		
Patch Panel 48 port		10
Patch Panel 24port		1
Patch Panel 12 port		2
Patch Panel - Dress Cable & Fan Out		175
Patch Panel - Terminate - Cables to patch panel		175
Labeling		175
110 Block FT - 100 pr		6
110 Block - Dress Cable & Fan Out		175
110 Block - Terminate		175
Patch Cords		
Copper		
3 ft		75
5 ft		100
7 ft		75
10 ft		100
Other		
Tie Wraps (Plenum)		10
Velcro Tape - 75 ft Roll		1
Riser / Back-Bone Conner		
Cable - PE89 - In Conduit - 6pr		400
Cable - PE89 - In Conduit -12 pr		125
Cable - PE89 - In Conduit - 25pr		750
Cable - CMR/ARMM 100 pr		400
110 Block FT - 100 pr		2
Terminate - PE89 - CMR/100 pr		2.5
Protector 6pr		2
Protector 12 pr		2
Protector 25pr		4
Protector Modules		134
Protector - Dress Cable & Fan Out		134
Protector - Terminate		134
Riser / Back-Bone Fiber		
Fiber - In Conduit - 2 to 144 fibers-4 strand		550
Fiber - In Conduit - 2 to 144 fibers 6 strand		250
Patch Panel - Fiber - 6 - 144 Ports 6 port		1
Patch Panel - Fiber - 6 - 144 Ports 12 port		1
Patch Panel - Fiber - 6 - 144 Ports 24 port		1
Adaptor Plate - 6 Pack		4
Fiber Connector/Couplers - , SC,		20
Terminate - 1 to 6 fiber connectors		20
TESTING - OTDR		20
CER. MDF. IDF		
Vertical Rack-72" X 19"		4
Ladder Rack Wall Angle Mtg Hdwr - Black - 12"		4
Ladder Rack - 12" x 9' 11 1/2"		4
Horizontal Wire Manager - 19" Front & Back		12



acknowledges

BELL SOUTH COMMUNICATIONS SYSTEMS, INC.

of

Ft. Lauderdale, FL

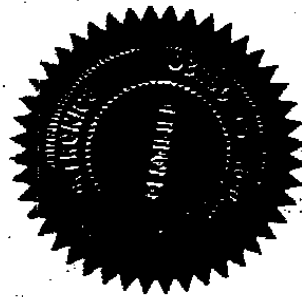
to be a CERTIFIED INSTALLER PLUS-PLATINUM
with Ortronics, Inc. for the period

May 13, 2000 to May 13, 2001

Howard R. Adams
President

October 19, 2000
Date

3120
Registration Number



We hereby propose to provide and install the above listed labor and materials in accordance with the above specifications for the sum of: \$72,600.00 for the Category 5E solution or to upgrade to a dual Category 6 solution would be \$ 97,275.00, or the option to install Category 5E for voice and Category 6 for data would be \$ 84,075.00. Excluding applicable sales tax.

Payment will be made as follows: Per Master Agreement

All material is warranted under the Master Agreement to be as specified. All work will be completed in a workmanlike manner according to standard practices. Any alteration or deviation from above specifications will be executed only upon written Change Orders prepared by BellSouth and signed by Customer showing the cost and time impact of the changes. All agreements contingent upon strikes, accidents, or any other factors beyond our control. This proposal is subject to acceptance within 60 days and is void thereafter.

Signature: Todd Stagg
Todd Stagg, RCDD
BellSouth Communication Systems, Inc.
BICS ENGINEER

Date: 6-12-01



ACCEPTANCE OF PROPOSAL

The above prices, specifications and conditions are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above.

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The above prices, specifications and conditions are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above.

Option # 1 Category 5E = \$ 72,600.00 or

Option # 2 Category 6 = \$ 97,275.00 or

Option # 3 Category 5E/6 = \$ 84,075.00

Customer: _____ Date _____

Customers Purchase Order Number, Contact, and Address:

P.O. # _____ Amount= \$ _____

Invoice Attention to: _____

Address : _____

Signature: _____ Date: _____